

Electric field due to a dipole



Uniform spherical charge distribution of radius R


## Electric field lines

(a)


## Electric field lines



Electric field lines

26.13

## Properties of electric field lines

1. The electric field vector is tangent to the electric field lines at each point.
2. The electric field lines start on positive charges and end on negative charges.
3. The number of lines per unit area through a surface perpendicular to the lines is proportional to the strength of the electric field in a given region

Dipole in an external electric field
(a)

(b)


